CCGS W.E. Ricker Gulf of Alaska Salmon Survey, October 2-20, 1995

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CCGS W.E. RICKER GULF OF ALASKA SALMON SURVEY, OCTOBER 2-20, 1995

by

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Welch, D. W., J. F. T. Morris, E. Demers, and H.R. Carlson. 2002. *CCGS W.E. Ricker* Gulf of Alaska salmon survey, October 2-20, 1995. Can. Data Rep. Fish. Aquat. Sci. 1098: 23 p.

In the fall of 1995, Canadian and US scientists on board the CCGS W.E. Ricker surveyed the juvenile salmon (*Oncorhynchus spp.*) populations on the continental shelf around the Gulf of Alaska and within the inside passages of Southeast Alaska by towing Bernard-Sigmund beam trawls. The survey demonstrated that juvenile salmon were distributed on the continental shelf from Southeast Alaska to at least the Kenai Peninsula. However, the Bernard-Sigmund beam trawls proved to be an ineffective gear for catching juvenile salmon greater than 15 cm in fork length, since catch rates were very low relative to that of a chartered US commercial dragger using a model 400/580 hexagonal mid-water trawl taken at the same time. For this reason, it was not possible to assess the relative abundance of juvenile salmon off Southeast Alaska, Central Alaska, and the Kenai Peninsula.

RESUME

Welch, D. W., J. F. T. Morris, E. Demers, and H.R. Carlson. 2002. *CCGS W.E. Ricker* Gulf of Alaska salmon survey, October 2-20, 1995. Can. Data Rep. Fish. Aquat. Sci. 1098: 23 p.

Durant l'automne de 1995, des scientifiques canadiens et américains ont étudier les populations de saumons juvéniles (Oncorhynchus spp.) le long du plateau continental autour du Golfe de l'Alaska et dans les passages intérieurs du Sud-Est de l'Alaska en utilisant un chalut à perche Bernard-Sigmund à bord du CCGS W.E. Ricker. Cette étude a démontré que les saumons juvéniles se situaient sur le plateau continental du Sud-Est de l'Alaska jusqu'à la péninsule de Kenai. Cependant, le chalut à perche Bernard-Sigmund était peu efficace pour capturer les saumons juvéniles ayant une longueur à la fourche plus grande que 15 cm, puisque les taux de capture étaient très faibles par rapport à ceux obtenus à partir d'un dragueur commercial américain qui utilisait en même temps un chalut pélagique de type 400/580. Pour cette raison, il n'était pas possible de déterminer l'abondance relative des saumons juvéniles au Sud-Est de l'Alaska, en Alaska central, et à la péninsule de Kenai.

INTRODUCTION

Fisheries and Oceans Canada and the US National Marine Fisheries Service (NMFS) conducted a survey of juvenile salmon (salmon in their first year at sea) on the continental shelf around the Gulf of Alaska from October 2 to 20, 1995. The CCGS W.E. Ricker towed Bernard-Sigmund beam trawls that were rigged to continuously sample the surface waters for juvenile salmon on both the starboard and port sides of the ship along a given transect.

The objectives of the survey were:

1) to determine the distribution, migration routes, speed and timing of juvenile salmon on the continental shelf from Southeast Alaska to the Kenai Peninsula;
2) to collect data on juvenile salmon distributions, sizes, growth and feeding rates;
3) to conduct a gear comparison between the Bernard-Sigmund beam trawls towed by the CCGS W.E. Ricker and a model 400/580 hexagonal mid-water trawl towed by a US commercial dragger, the F.V. Columbia; and,
4) to collect oceanographic data on the Alaskan Coastal Current at various positions along the continental shelf.

MATERIALS AND METHODS

General Survey Information

Figures 1 and 2 show the cruise track and the 20 oceanographic stations completed by the CCGS W.E. Ricker. The survey was started with a long cross-shelf transect off Cape Fairweather in Southeast Alaska, followed by some fishing in the central Gulf of Alaska, and shorter cross-shelf transects off the Kenai Peninsula, Montague Island, Kayak Island in Central Alaska, and off Cape Spencer in Southeast Alaska. On the second leg of the survey, the CCGS W.E. Ricker fished the inside passages of Southeast Alaska and along two near-shore transects.

A total of 311 fishing tows and 20 oceanographic stations were completed (Figures 1 and 2).

Fishing Gear and Fishing Operations

The CCGS W.E. Ricker is a 1,104 gross tonnes stern trawler, 58 m in length, 9.5 m in beam, and powered by a 2,500 H.P. model AH 40 Akasaka diesel engine. Fish sampling was conducted during daytime with twin Bernard-Sigmund beam trawls from 10.5 m outriggers mounted midship on both port and starboard sides (Cooke et al. 1991). The trawls were attached to top and bottom 10.3 m long beams. The bottom beams were equipped with deflectors that forced the trawls downward while under tow and maintained mouth openings. The trawls were 85 m in length, and were fitted with 1.9 cm mesh codend liners that were 5 m in length for the retention of juvenile salmon.

The trawls had maximum mouth openings of 9.1 m wide by 12.2 m deep. However, at typical towing speeds of 2.8 to 4.2 knots (1.4 to 2.2 m s^{-1}) that depended on sea state, the measured mouth openings were about 9 m wide by 6 m deep.

The Bernard-Sigmund trawls were towed continuously along a transect, but since only the codends needed to be hauled in, catches were sampled at one hour intervals. The sampling of the port and starboard trawls was staggered on the half-hour.

Oceanographic Sampling

CTD (conductivity-temperature-depth) casts were conducted to a maximum of 1,000 m along two cross-shelf transects off Southeast Alaska and at two additional stations in Chatham Strait inside Southeast Alaska and in Iphigenia Bay off Southeast Alaska. The CTD probe was a Guildline, serial # 53977.

A thermosalinograph recorded a continuous log of sea surface salinity and temperature from October 2-6, 1995, along the Cape Fairweather transect that extended into the central Gulf of Alaska. The thermosalinograph failed on October 6 and was not used for the remainder of the survey.

An acoustic Doppler current profiler (ADCP), RD Industries, frequency 150 kHz, was run continuously to measure velocities and direction of currents with depth along the survey track. The ADCP data was logged with Transect ver. 1.82 software.

RESULTS

Salmon Catch Data

Table 1 reports information on the 311 trawl tows and a summary of salmon catches for the survey. Tow information includes: station ID, transect location, geographic region, date and time recorded in Pacific Standard Time (PST), and start latitude (°N) and longitude (°W), bottom depth (m), tow duration (h), towing speed (sog; speed over ground in knots), track heading (degrees true), and the trawl sampled (port (P) or starboard (S) Bernard-Sigmund trawl). For each tow, catch totals are provided separately for juvenile and adult chinook (CK), chum (CM), coho (CO), pink (PK) and sockeye salmon (SE). In this report, juveniles are defined as salmon in their first year at sea (age 0.1+), while adults include all older age groups (age 0.2+ or older).

Station ID numbers in Table 1 consisted of the Pacific Biological Station cruise designation ("HSR1095"), where "HS" stands for Highseas, "R" refers to the CCGS W.E. Ricker), and "1095" refers to the month and year of the cruise. The cruise designation is followed by a consecutive tow number. The station ID number serves as the primary key in the Highseas salmon database that links fishing tow information with the oceanographic table.

Catches of Pacific salmon were extremely low during this survey. However, juveniles of all five salmon species were caught over the continental shelf within the 1,000 m contour (Figure 3a-e; Figure 4). No adult salmon were caught during this survey (Figure 3f-j).

On this survey, it was difficult to assess the relative abundance of juvenile salmon, since the catch rates were extremely low. A total of only 132 juvenile salmon were caught on 311 hauls, or an average of 0.4 salmon per haul. In comparison, the F.V. Columbia, a US commercial dragger chartered by the US National Marine Fisheries Service (NMFS) and Fisheries and Oceans Canada, towed a model 400/580 hexagonal mid-water trawl off Southeast Alaska at the same time of year (Welch and Morris. 2002), and caught 3,501 juveniles in 37 tows. It was clear that the Sigmund-Bernard trawls were relatively ineffective at catching juvenile salmon in the fall, although they have proved more effective on previous spring and summer surveys targeting smaller juveniles (Cooke at al. 1991).

Salmon Biological Data

Table 2 reports the detailed biological data collected from each salmon caught on the survey. Individual salmon were assigned a fish number which consisted of the cruise identifier "HSR1095", followed hierarchically by tow number, species code, and sample number. For example, "HSR1095-156-112-019" refers to tow number 156, species code "112" for chum salmon, and the sample number "019" (the 19th fish caught in this survey). We used the following codes from Fisheries and Oceans' Salmon Stock Assessment database: 108, pink salmon; 112, chum salmon; 115, coho salmon; 118, sockeye salmon; and 124, chinook salmon. The station ID number indicating the consecutive tow in which each salmon was caught is also included in Table 2.

Biological data collected for each salmon includes (when available): species common name, fork length (mm), age and sex.

Oceanographic Data

Table 3 reports the physical oceanographic data collected on the survey including the station ID number, the Institute of Ocean Sciences' consecutive number for the CTD cast, sampling region, the date and time in UTC, the latitude (°N) and longitude (°W), sea surface temperature (SST) in °C taken from the processed CTD files, sea surface salinity (SSS) in ppt taken from the CTD files, sea surface salinities in ppt determined from the sample bottles that were used to calibrate the CTD probe, and nitrate, silicate, and phosphate concentrations in micromoles (μM). The CTD consecutive number consists of the Institute of Ocean Sciences' cruise designation "9511" followed by the consecutive number for each CTD cast on this survey. Since the CTD and fishing consecutive number series were independent, some of the stations where CTD and bongo tows, but no fishing tows were conducted, were given the designation "HS0395-CTD-" followed by a number derived from the CTD consecutive number.

Table 3 reports the physical oceanographic data collected on the survey including the station ID number (for reference to Tables 1 and 2), the Institute of Ocean Sciences' consecutive number for the CTD cast, transect location, sampling region, the date and time in UTC, the latitude (°N) and longitude (°W), sea surface temperature (SST) in °C and sea surface salinity (SSS) in ppt taken from the processed CTD files. The CTD consecutive number consists of the Institute of Ocean Sciences' cruise designation "9536" followed by the consecutive number for each CTD cast on this survey.

The CTD files and the thermosalinograph data can be obtained from Robin Brown, Ocean Sciences & Productivity Division, Fisheries and Oceans Canada, Institute of Ocean Sciences, 9860 West Saanich Rd, Sidney, BC, Canada V8L 4B2. Tel: (250) 363-6378; E-mail: BrownRo@dfo-mpo.gc.ca

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Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-001	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	19:02	58.713	138.095	60	0.97	2.6	249	P	0	0	0	0	0	0	0	0	0	0
HSR1095-002	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	19:20	58.705	138.117	60	1.17	2.5	256	S	0	0	0	0	0	0	0	0	0	0
HSR1095-003	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	20:10	58.697	138.182	77	0.83	2.4	255	P	0	0	0	0	0	0	0	0	0	0
HSR1095-004	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	20:35	58.693	138.212	77	0.92	2.4	252	S	0	0	0	0	0	0	0	0	0	0
HSR1095-005	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	21:05	58.688	138.250	102	0.92	2.2	251	P	0	0	0	0	0	0	0	0	0	0
HSR1095-006	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	21:35	58.682	138.285	102	0.92	2.4	248	S	0	0	0	0	0	0	0	0	0	0
HSR1095-007	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	22:05	58.675	138.318	102	0.92	2.5	247	P	0	0	0	0	0	0	0	0	0	0
HSR1095-008	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	22:35	58.667	138.357	134	1.08	2.4	244	S	0	0	0	0	1	0	0	0	0	0
HSR1095-009	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	23:07	58.660	138.392	137	0.88	3.4	243	P	0	0	0	0	0	0	0	0	0	0
HSR1095-010	CAPE FAIRWEATHER	S.E. ALASKA	02-Oct-95	23:51	58.643	138.447	154	0.68	2.7	245	S	0	0	0	0	0	0	0	0	0	0
HSR1095-011	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	00:17	58.635	138.478	154	0.72	2.6	245	P	0	0	0	0	0	0	0	0	0	0
HSR1095-012	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	00:43	58.627	138.512	151	0.78	2.7	241	S	0	0	0	0	0	0	0	0	0	0
HSR1095-013	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	01:06	58.620	138.538	151	0.90	2.6	239	P	0	0	0	0	0	0	0	0	0	0
HSR1095-014	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	01:40	58.605	138.590	150	0.83	2.2	230	S	0	0	0	0	0	0	0	0	0	0
HSR1095-015	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	02:10	58.593	138.615	150	0.90	2.5	227	P	0	0	0	0	0	0	0	0	0	0
HSR1095-016	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	02:59	58.570	138.663	151	0.52	2.6	220	S	0	0	0	0	0	0	0	0	0	0
HSR1095-017	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	03:10	58.563	138.673	152	0.83	2.4	218	P	0	0	0	0	0	0	0	0	0	0
HSR1095-018	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	03:40	58.547	138.697	152	0.83	2.5	212	S	0	0	0	0	0	0	0	0	0	0
HSR1095-019	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	04:06	58.533	138.715	152	0.90	2.6	210	P	0	0	0	0	0	0	0	0	0	0
HSR1095-020	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	04:37	58.513	138.737	152	0.88	2.5	211	S	0	0	0	0	0	0	0	0	0	0
HSR1095-021	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	05:07	58.495	138.758	157	0.88	2.4	216	P	0	0	0	0	0	0	1	0	0	0
HSR1095-022	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	05:37	58.477	138.777	157	0.88	2.6	231	S	0	0	0	0	1	0	0	0	0	0
HSR1095-023	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	06:04	58.465	138.803	157	0.93	2.6	236	P	0	0	0	0	0	0	0	0	0	0
HSR1095-024	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	06:36	58.452	138.838	150	0.90	2.7	237	S	0	0	0	0	0	0	0	0	0	0
HSR1095-025	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	07:05	58.440	138.873	150	0.92	2.5	235	P	0	0	0	0	0	0	0	0	0	0
HSR1095-026	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	07:35	58.428	138.908	150	0.92	2.6	226	S	0	0	0	0	0	0	0	0	0	0
HSR1095-027	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	08:05	58.417	138.933	178	0.92	2.0	210	P	0	0	0	0	0	0	0	0	0	0
HSR1095-028	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	08:35	58.402	138.973	191	0.93	2.6	231	S	0	0	0	0	0	0	0	0	0	0
HSR1095-029	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	09:07	58.387	139.000	187	0.90	2.7	232	P	0	0	0	0	0	0	0	0	0	0
HSR1095-030	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	09:39	58.373	139.038	187	0.85	2.5	230	S	0	0	0	0	0	0	0	0	0	0
HSR1095-031	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	10:05	58.358	139.068	187	0.93	2.4	231	P	0	0	0	0	0	0	0	0	0	0
HSR1095-032	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	10:36	58.343	139.098	167	0.92	2.3	230	S	0	0	0	0	0	0	0	0	0	0
HSR1095-033	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	11:09	58.330	139.132	220	1.32	2.7	234	P	0	0	0	0	0	0	0	0	0	0
HSR1095-034	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	11:30	58.313	139.168	225	1.12	2.2	236	S	0	0	0	0	0	0	0	0	0	0
HSR1095-035	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	12:36	58.290	139.233	225	0.85	2.8	234	P	0	0	0	0	0	0	0	0	0	0
HSR1095-036	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	12:42	58.288	139.237	225	0.92	2.8	234	S	0	0	0	0	0	0	0	0	0	0
HSR1095-037	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	13:35	58.265	139.298	357	0.87	2.9	234	P	0	0	0	0	0	0	0	0	0	0
HSR1095-038	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	13:44	58.260	139.308	357	0.88	2.8	236	S	0	0	0	0	0	0	0	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-039	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	14:34	58.238	139.368	1,014	0.88	2.8	233	P	0	0	0	0	0	0	0	0	0	0
HSR1095-040	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	14:42	58.235	139.377	1,014	0.90	2.7	232	S	0	0	0	0	0	0	0	0	0	0
HSR1095-041	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	15:35	58.212	139.435	1,637	0.88	2.7	224	P	0	0	0	0	0	0	0	0	0	0
HSR1095-042	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	15:43	58.207	139.443	1,637	0.88	2.7	230	S	0	0	0	0	0	0	0	0	0	0
HSR1095-043	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	16:34	58.182	139.500	1,964	0.90	2.6	221	P	0	0	0	0	0	0	0	0	0	0
HSR1095-044	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	16:42	58.178	139.498	1,637	0.88	2.8	227	S	0	0	0	0	0	0	0	0	0	0
HSR1095-045	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	17:33	58.152	139.553	2,917	0.97	3.1	227	P	0	0	0	0	0	0	0	0	0	0
HSR1095-046	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	17:42	58.130	139.563	2,917	0.95	2.4	246	S	0	0	0	0	0	0	0	0	0	0
HSR1095-047	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	18:37	58.115	139.625	2,943	0.92	3.0	232	P	0	0	0	0	0	0	0	0	0	0
HSR1095-048	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	18:43	58.113	139.632	2,943	0.93	3.1	229	S	0	0	0	0	0	0	0	0	0	0
HSR1095-049	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	19:35	58.083	139.697	3,187	0.97	2.8	231	P	0	0	0	0	0	0	0	0	0	0
HSR1095-050	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	19:45	58.078	139.708	3,187	0.92	2.8	233	S	0	0	0	0	0	0	0	0	0	0
HSR1095-051	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	20:38	58.053	139.770	3,203	0.90	2.8	232	P	0	0	0	0	0	0	0	0	0	0
HSR1095-052	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	20:45	58.048	139.777	3,203	0.93	2.6	235	S	0	0	0	0	0	0	0	0	0	0
HSR1095-053	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	21:36	58.025	139.838	3,338	0.93	2.8	232	P	0	0	0	0	0	0	0	0	0	0
HSR1095-054	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	21:45	58.023	139.843	3,338	0.88	3.0	234	S	0	0	0	0	0	0	0	0	0	0
HSR1095-055	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	22:32	57.998	139.908	3,390	0.92	2.9	231	P	0	0	0	0	0	0	0	0	0	0
HSR1095-056	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	22:44	57.993	139.917	3,414	0.92	2.8	233	S	0	0	0	0	0	0	0	0	0	0
HSR1095-057	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	23:37	57.980	139.980	3,414	0.85	3.4	221	P	0	0	0	0	0	0	0	0	0	0
HSR1095-058	CAPE FAIRWEATHER	S.E. ALASKA	03-Oct-95	23:43	57.963	139.987	3,414	0.87	2.7	234	S	0	0	0	0	0	0	0	0	0	0
HSR1095-059	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	00:33	57.938	140.045	3,408	0.92	2.5	239	P	0	0	0	0	0	0	0	0	0	0
HSR1095-060	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	00:40	57.938	140.053	3,408	0.90	2.5	237	S	0	0	0	0	0	0	0	0	0	0
HSR1095-061	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	01:33	57.917	140.113	3,410	0.92	2.3	237	P	0	0	0	0	0	0	0	0	0	0
HSR1095-062	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	01:41	57.913	140.120	3,353	0.90	2.2	237	S	0	0	0	0	0	0	0	0	0	0
HSR1095-063	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	02:33	57.897	140.172	3,408	0.92	2.3	230	P	0	0	0	0	0	0	0	0	0	0
HSR1095-064	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	02:39	57.893	140.177	3,408	0.92	2.2	232	S	0	0	0	0	0	0	0	0	0	0
HSR1095-065	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	03:32	57.873	140.225	3,408	0.92	2.2	231	P	0	0	0	0	0	0	0	0	0	0
HSR1095-066	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	03:40	57.870	140.232	3,408	0.92	2.2	229	S	0	0	0	0	0	0	0	0	0	0
HSR1095-067	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	04:33	57.848	140.278	3,412	0.92	2.2	227	P	0	0	0	0	0	0	0	0	0	0
HSR1095-068	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	04:40	57.847	140.283	3,412	0.92	2.4	226	S	0	0	0	0	0	0	0	0	0	0
HSR1095-069	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	05:33	57.822	140.332	3,346	0.95	2.4	219	P	0	0	0	0	0	0	0	0	0	0
HSR1095-070	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	05:40	57.818	140.335	3,354	0.97	2.5	220	S	0	0	0	0	0	0	0	0	0	0
HSR1095-071	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	06:35	57.788	140.380	3,354	0.95	2.8	223	P	0	0	0	0	0	0	0	0	0	0
HSR1095-072	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	06:44	57.782	140.388	3,354	0.90	2.8	224	S	0	0	0	0	0	0	0	0	0	0
HSR1095-073	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	07:37	57.753	140.442	3,369	0.88	3.1	224	P	0	0	0	0	0	0	0	0	0	0
HSR1095-074	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	07:42	57.750	140.447	3,362	0.97	3.3	224	S	0	0	0	0	0	0	0	0	0	0
HSR1095-075	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	08:35	57.718	140.507	3,369	0.92	3.1	222	P	0	0	0	0	0	0	0	0	0	0
HSR1095-076	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	08:45	57.715	140.510	3,369	0.92	3.5	231	S	0	0	0	0	0	0	0	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-077	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	09:38	57.683	140.585	3,375	0.88	3.2	231	P	0	0	0	0	0	0	0	0	0	0
HSR1095-078	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	09:43	57.678	140.592	3,375	0.90	3.1	233	S	0	0	0	0	0	0	0	0	0	0
HSR1095-079	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	10:35	57.652	140.660	3,346	0.93	3.4	236	P	0	0	0	0	0	0	0	0	0	0
HSR1095-080	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	10:41	57.647	140.668	3,371	0.93	3.4	237	S	0	0	0	0	0	0	0	0	0	0
HSR1095-081	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	11:35	57.620	140.748	3,371	0.90	3.5	238	P	0	0	0	0	0	0	0	0	0	0
HSR1095-082	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	11:45	57.615	140.762	3,397	0.88	3.6	239	S	0	0	0	0	0	0	0	0	0	0
HSR1095-083	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	12:35	57.593	140.830	3,397	0.88	4.2	246	P	0	0	0	0	0	0	0	0	0	0
HSR1095-084	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	12:45	57.583	140.867	3,399	0.83	3.2	249	S	0	0	0	0	0	0	0	0	0	0
HSR1095-085	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	13:34	57.567	140.942	3,425	0.70	3.4	253	P	0	0	0	0	0	0	0	0	0	0
HSR1095-086	CAPE FAIRWEATHER	S.E. ALASKA	04-Oct-95	13:44	57.563	140.960	3,425	0.67	3.4	255	S	0	0	0	0	0	0	0	0	0	0
HSR1095-087	OFFSHORE	OFFSHORE	05-Oct-95	11:45	57.043	146.337	4,001	1.00	0.9	339	P	0	0	0	0	0	0	0	0	0	0
HSR1095-088	OFFSHORE	OFFSHORE	05-Oct-95	12:00	57.052	146.318	4,000	1.27	1.8	262	S	0	0	0	0	0	0	0	0	0	0
HSR1095-089	OFFSHORE	OFFSHORE	05-Oct-95	12:52	57.055	146.353	4,001	0.97	2.9	245	P	0	0	0	0	0	0	0	0	0	0
HSR1095-090	OFFSHORE	OFFSHORE	05-Oct-95	13:24	57.043	146.430	4,092	0.83	1.7	228	S	0	0	0	0	0	0	0	0	0	0
HSR1095-091	OFFSHORE	OFFSHORE	05-Oct-95	13:55	57.033	146.437	4,092	0.85	2.8	251	P	0	0	0	0	0	0	0	0	0	0
HSR1095-092	OFFSHORE	OFFSHORE	05-Oct-95	14:20	57.027	146.470	4,092	0.92	2.8	249	S	0	0	0	0	0	0	0	0	0	0
HSR1095-093	OFFSHORE	OFFSHORE	05-Oct-95	14:50	57.018	146.512	4,191	0.93	2.7	249	P	0	0	0	0	0	0	0	0	0	0
HSR1095-094	OFFSHORE	OFFSHORE	05-Oct-95	15:20	57.010	146.548	4,191	0.88	2.8	249	S	0	0	0	0	0	0	0	0	0	0
HSR1095-095	OFFSHORE	OFFSHORE	05-Oct-95	15:53	57.002	146.592	4,198	1.15	2.8	249	P	0	0	0	0	0	0	0	0	0	0
HSR1095-096	OFFSHORE	OFFSHORE	05-Oct-95	16:17	56.995	146.618	4,162	0.95	3.0	252	S	0	0	0	0	0	0	0	0	0	0
HSR1095-097	OFFSHORE	OFFSHORE	05-Oct-95	17:08	56.982	146.695	4,167	0.63	3.0	253	P	0	0	0	0	0	0	0	0	0	0
HSR1095-098	OFFSHORE	OFFSHORE	05-Oct-95	17:20	56.980	146.710	4,167	0.92	2.9	260	S	0	0	0	0	0	0	0	0	0	0
HSR1095-099	OFFSHORE	OFFSHORE	05-Oct-95	17:50	56.975	146.758	4,207	0.92	2.6	263	P	0	0	0	0	0	0	0	0	0	0
HSR1095-100	OFFSHORE	OFFSHORE	05-Oct-95	18:20	56.973	146.797	4,207	0.92	2.5	263	S	0	0	0	0	0	0	0	0	0	0
HSR1095-101	OFFSHORE	OFFSHORE	05-Oct-95	18:53	56.970	146.837	4,206	0.87	2.7	260	P	0	0	0	0	0	0	0	0	0	0
HSR1095-102	OFFSHORE	OFFSHORE	05-Oct-95	19:20	56.967	146.872	4,206	0.92	2.6	270	S	0	0	0	0	0	0	0	0	0	0
HSR1095-103	OFFSHORE	OFFSHORE	05-Oct-95	19:50	56.963	146.918	4,208	0.93	2.5	261	P	0	0	0	0	0	0	0	0	0	0
HSR1095-104	OFFSHORE	OFFSHORE	05-Oct-95	20:22	56.960	146.955	4,208	0.90	2.8	260	S	0	0	0	0	0	0	0	0	0	0
HSR1095-105	OFFSHORE	OFFSHORE	05-Oct-95	20:51	56.957	146.995	4,208	0.90	2.7	263	P	0	0	0	0	0	0	0	0	0	0
HSR1095-106	OFFSHORE	OFFSHORE	05-Oct-95	21:20	56.953	147.037	4,272	0.92	2.7	269	S	0	0	0	0	0	0	0	0	0	0
HSR1095-107	OFFSHORE	OFFSHORE	05-Oct-95	21:50	56.952	147.078	4,272	N/A	N/A	N/A	P	0	0	0	0	0	0	0	0	0	0
HSR1095-108	OFFSHORE	OFFSHORE	05-Oct-95	22:23	56.950	147.117	4,305	N/A	N/A	N/A	S	0	0	0	0	0	0	0	0	0	0
HSR1095-109	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	08:31	57.973	148.960	318	1.23	3.3	306	P	0	0	0	0	0	0	0	0	0	0
HSR1095-110	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	08:45	57.970	148.958	318	1.17	4.1	311	S	0	0	0	0	0	0	0	0	0	0
HSR1095-111	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	09:50	58.020	149.070	118	0.92	3.6	328	P	0	0	0	0	0	0	0	0	0	0
HSR1095-112	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	10:00	58.025	149.078	118	0.92	3.4	330	S	0	0	0	0	0	0	0	0	0	0
HSR1095-113	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	10:53	58.067	149.127	97	0.87	3.4	332	P	0	0	0	0	0	0	0	0	0	0
HSR1095-114	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	11:00	58.073	149.132	97	0.87	3.4	333	S	0	0	0	0	0	0	0	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-115	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	11:50	58.113	149.173	141	0.88	3.3	335	P	0	0	0	0	0	0	0	0	0	0
HSR1095-116	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	11:58	58.122	149.182	141	0.88	3.0	335	S	0	0	0	0	0	0	0	0	0	0
HSR1095-117	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	12:49	58.160	149.215	141	0.92	2.9	329	P	0	0	0	0	0	0	0	0	0	0
HSR1095-118	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	12:58	58.168	149.222	168	0.87	2.9	327	S	0	0	0	0	0	0	0	0	0	0
HSR1095-119	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	13:49	58.202	149.263	171	0.90	2.6	327	P	0	0	0	0	0	0	0	0	0	0
HSR1095-120	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	13:59	58.207	149.270	171	0.82	2.7	328	S	0	0	0	0	0	0	0	0	0	0
HSR1095-121	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	14:47	58.238	149.307	171	0.92	3.0	324	P	0	0	0	0	0	0	0	0	0	0
HSR1095-122	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	14:54	58.242	149.313	171	0.95	2.9	327	S	0	0	0	0	0	0	0	0	0	0
HSR1095-123	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	15:48	58.278	149.360	173	0.95	2.3	324	P	0	0	0	0	0	0	0	0	0	0
HSR1095-124	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	15:55	58.283	149.322	182	0.95	3.2	300	S	0	0	0	0	0	0	0	0	0	0
HSR1095-125	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	16:50	58.308	149.403	173	0.85	1.8	302	P	0	0	0	0	0	0	0	0	0	0
HSR1095-126	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	16:58	58.310	149.410	173	0.83	1.8	302	S	0	0	0	0	0	0	0	0	0	0
HSR1095-127	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	17:46	58.322	149.448	174	0.98	1.7	286	P	0	0	0	0	0	0	0	0	0	0
HSR1095-128	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	17:53	58.323	149.453	174	0.90	1.9	284	S	0	0	0	0	0	0	0	0	0	0
HSR1095-129	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	18:49	58.330	149.505	174	0.93	2.0	285	P	0	0	0	0	0	0	0	0	0	0
HSR1095-130	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	18:56	58.330	149.512	174	0.95	2.1	288	S	0	0	0	0	0	0	0	0	0	0
HSR1095-131	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	19:50	58.338	149.568	173	0.92	2.5	281	P	0	0	0	0	0	0	0	0	0	0
HSR1095-132	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	19:58	58.340	149.578	173	0.92	2.6	280	S	0	0	0	0	0	0	0	0	0	0
HSR1095-133	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	20:50	58.347	149.647	173	0.97	3.0	286	P	0	0	0	0	0	0	0	0	0	0
HSR1095-134	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	20:57	58.348	149.657	173	1.10	2.9	287	S	0	0	0	0	0	0	0	0	0	0
HSR1095-135	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	22:00	58.362	149.748	173	0.75	3.1	293	P	0	0	0	0	0	0	0	0	0	0
HSR1095-136	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	22:09	58.365	149.762	172	0.72	3.2	293	S	0	0	0	0	0	0	1	0	1	0
HSR1095-137	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	22:50	58.378	149.825	172	0.92	3.2	301	P	0	0	0	0	0	0	1	0	0	0
HSR1095-138	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	22:58	58.382	149.838	171	0.90	3.3	302	S	0	0	0	0	0	0	2	0	0	0
HSR1095-139	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	23:50	58.407	149.917	172	0.90	3.3	302	P	0	0	0	0	0	0	0	0	0	0
HSR1095-140	KENAI PENINSULA	CENTRAL ALASKA	06-Oct-95	23:58	58.410	149.927	172	0.90	3.4	303	S	0	0	0	0	0	0	0	0	1	0
HSR1095-141	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	00:49	58.437	150.003	179	0.93	3.0	312	P	0	0	0	0	0	0	0	0	0	0
HSR1095-142	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	00:55	58.440	150.012	179	0.98	3.0	316	S	0	0	0	0	0	0	2	0	0	0
HSR1095-143	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	01:50	58.473	150.073	179	0.88	3.1	343	P	0	0	0	0	0	0	0	0	0	0
HSR1095-144	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	02:00	58.480	150.080	179	0.85	3.1	346	S	0	0	0	0	0	0	1	0	1	0
HSR1095-145	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	02:49	58.520	150.098	187	0.93	2.8	347	P	1	0	0	0	0	0	0	0	0	0
HSR1095-146	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	02:57	58.527	150.102	187	0.90	2.6	348	S	0	0	0	0	0	0	0	0	0	0
HSR1095-147	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	03:48	58.563	150.118	187	1.03	2.1	347	P	0	0	0	0	0	0	0	0	0	0
HSR1095-148	KENAI PENINSULA	CENTRAL ALASKA	07-Oct-95	03:57	58.570	150.120	187	0.88	2.0	346	S	0	0	0	0	0	0	0	0	0	0
HSR1095-149	MONTAGUE ISLAND	CENTRAL ALASKA	07-Oct-95	22:45	59.663	147.870	144	1.20	1.0	308	P	0	0	0	0	0	0	0	0	0	0
HSR1095-150	MONTAGUE ISLAND	CENTRAL ALASKA	07-Oct-95	23:05	59.673	147.895	20	1.03	0.1	090	S	0	0	0	0	0	0	1	0	0	0
HSR1095-151	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	00:04	59.673	147.895	20	0.88	1.7	104	P	0	0	0	0	0	0	0	0	0	0
HSR1095-152	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	00:15	59.673	147.887	20	0.87	1.9	112	S	0	0	0	0	0	0	1	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-153	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	00:53	59.667	147.840	20	1.10	2.0	137	P	0	0	0	0	0	0	0	0	0	0
HSR1095-154	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	01:15	59.663	147.827	143	0.95	2.5	140	S	0	0	0	0	0	0	2	0	0	0
HSR1095-155	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	02:07	59.635	147.782	143	0.88	2.8	143	P	0	0	0	0	0	0	0	0	0	0
HSR1095-156	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	02:17	59.632	147.770	143	0.92	3.0	150	S	0	0	1	0	0	0	0	0	0	0
HSR1095-157	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	03:08	59.597	147.728	87	0.87	3.4	158	P	0	0	0	0	0	0	1	0	0	0
HSR1095-158	MONTAGUE ISLAND	CENTRAL ALASKA	08-Oct-95	03:20	59.585	147.718	87	0.92	3.7	161	S	0	0	1	0	0	0	0	0	0	0
HSR1095-159	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	19:15	59.652	144.575	167	1.25	1.6	161	P	0	0	0	0	0	0	0	0	0	0
HSR1095-160	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	19:25	59.657	144.570	167	1.25	2.1	165	S	0	0	0	0	0	0	0	0	0	0
HSR1095-161	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	20:35	59.617	144.552	167	0.92	2.3	148	P	0	0	0	0	0	0	0	0	0	0
HSR1095-162	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	20:45	59.612	144.545	167	1.00	2.3	151	S	0	0	1	0	0	0	2	0	0	0
HSR1095-163	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	21:38	59.580	144.510	277	0.87	2.2	150	P	0	0	2	0	0	0	1	0	0	0
HSR1095-164	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	21:45	59.577	144.505	277	0.92	2.3	153	S	0	0	0	0	0	0	4	0	1	0
HSR1095-165	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	22:37	59.547	144.475	333	0.88	2.2	154	P	0	0	1	0	0	0	0	0	0	0
HSR1095-166	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	22:46	59.542	144.470	333	0.85	2.3	152	S	0	0	0	0	0	0	5	0	0	0
HSR1095-167	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	23:35	59.515	144.442	333	0.92	2.4	180	P	0	0	0	0	0	0	1	0	0	0
HSR1095-168	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	23:44	59.510	144.438	333	0.98	2.4	184	S	0	0	0	0	0	0	1	0	0	0
HSR1095-169	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	00:39	59.473	144.442	783	0.83	2.4	176	P	0	0	1	0	0	0	0	0	0	0
HSR1095-170	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	00:50	59.467	144.442	783	0.82	2.5	172	S	0	0	0	0	0	0	0	0	0	0
HSR1095-171	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	01:35	59.437	144.435	783	0.92	2.7	162	P	0	0	0	0	0	0	1	0	0	0
HSR1095-172	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	01:46	59.428	144.432	783	0.87	3.0	160	S	0	0	0	0	0	0	0	0	0	0
HSR1095-173	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	02:34	59.392	144.408	1,974	0.57	4.9	164	P	0	0	0	0	0	0	0	0	0	0
HSR1095-174	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	02:42	59.380	144.397	1,974	1.00	2.6	169	S	0	0	0	0	0	0	0	0	0	0
HSR1095-175	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	03:39	59.338	144.380	1,974	0.83	3.3	172	P	0	0	0	0	0	0	0	0	0	0
HSR1095-176	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	03:49	59.330	144.378	2,794	0.85	3.2	172	S	0	0	0	0	0	0	0	0	0	0
HSR1095-177	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	04:36	59.288	144.365	2,794	0.90	3.4	173	P	0	0	0	0	0	0	0	0	0	0
HSR1095-178	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	04:46	59.280	144.362	2,794	0.90	3.5	173	S	0	0	0	0	0	0	0	0	0	0
HSR1095-179	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	05:38	59.230	144.350	3,551	0.87	3.1	179	P	0	0	0	0	0	0	0	0	0	0
HSR1095-180	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	05:45	59.223	144.348	3,551	0.90	3.1	176	S	0	0	0	0	0	0	0	0	0	0
HSR1095-181	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	06:36	59.178	144.343	3,551	0.90	2.9	170	P	0	0	0	0	0	0	0	0	0	0
HSR1095-182	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	06:46	59.172	144.340	3,551	0.88	3.0	171	S	0	0	0	0	0	0	0	0	0	0
HSR1095-183	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	07:37	59.132	144.327	3,746	0.88	1.8	019	P	0	0	0	0	0	0	0	0	0	0
HSR1095-184	KAYAK ISLAND	CENTRAL ALASKA	08-Oct-95	07:45	59.125	144.323	3,746	0.87	2.7	170	S	0	0	0	0	0	0	0	0	0	0
HSR1095-185	CAPE SPENCER	S.E. ALASKA	10-Oct-95	18:39	57.770	137.802	2,083	1.35	2.1	026	P	0	0	0	0	0	0	0	0	0	0
HSR1095-186	CAPE SPENCER	S.E. ALASKA	10-Oct-95	18:55	57.780	137.802	2,083	1.25	1.6	047	S	0	0	0	0	0	0	0	0	0	0
HSR1095-187	CAPE SPENCER	S.E. ALASKA	10-Oct-95	20:07	57.817	137.755	2,083	0.88	2.9	057	P	0	0	0	0	0	0	0	0	0	0
HSR1095-188	CAPE SPENCER	S.E. ALASKA	10-Oct-95	20:18	57.822	137.740	2,073	0.83	2.8	059	S	0	0	0	0	0	0	0	0	0	0
HSR1095-189	CAPE SPENCER	S.E. ALASKA	10-Oct-95	21:06	57.842	137.678	1,004	0.90	2.9	046	P	0	0	0	0	0	0	0	0	0	0
HSR1095-190	CAPE SPENCER	S.E. ALASKA	10-Oct-95	21:14	57.845	137.670	1,004	0.90	2.9	046	S	0	0	0	0	0	0	0	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-191	CAPE SPENCER	S.E. ALASKA	10-Oct-95	22:05	57.873	137.613	993	0.92	3.1	044	P	0	0	0	0	0	0	0	0	0	0
HSR1095-192	CAPE SPENCER	S.E. ALASKA	10-Oct-95	22:25	57.887	137.592	993	0.80	2.9	049	S	0	0	0	0	0	0	0	0	0	0
HSR1095-193	CAPE SPENCER	S.E. ALASKA	10-Oct-95	23:06	57.908	137.547	691	0.90	2.6	055	P	0	0	0	0	0	0	0	0	0	0
HSR1095-194	CAPE SPENCER	S.E. ALASKA	10-Oct-95	23:19	57.913	137.533	691	0.88	2.5	053	S	0	0	0	0	0	0	0	0	0	0
HSR1095-195	CAPE SPENCER	S.E. ALASKA	10-Oct-95	00:07	57.935	137.477	197	0.88	3.0	056	P	0	0	0	0	0	0	0	0	0	0
HSR1095-196	CAPE SPENCER	S.E. ALASKA	10-Oct-95	00:20	57.942	137.463	197	0.83	2.9	059	S	0	0	0	0	0	0	0	0	0	0
HSR1095-197	CAPE SPENCER	S.E. ALASKA	10-Oct-95	01:07	57.963	137.398	170	0.87	3.1	057	P	0	0	0	0	0	0	0	0	0	0
HSR1095-198	CAPE SPENCER	S.E. ALASKA	10-Oct-95	01:17	57.967	137.387	170	0.88	3.2	058	S	0	0	0	0	0	0	0	0	0	0
HSR1095-199	CAPE SPENCER	S.E. ALASKA	10-Oct-95	02:06	57.990	137.318	156	0.90	3.2	061	P	0	0	0	0	0	0	0	0	0	0
HSR1095-200	CAPE SPENCER	S.E. ALASKA	10-Oct-95	02:20	57.997	137.298	156	0.82	3.1	062	S	0	0	0	0	0	0	0	0	0	0
HSR1095-201	CAPE SPENCER	S.E. ALASKA	10-Oct-95	03:06	58.015	137.233	159	0.87	2.7	056	P	0	0	0	0	0	0	0	0	0	0
HSR1095-202	CAPE SPENCER	S.E. ALASKA	10-Oct-95	03:09	58.020	137.220	159	0.90	2.6	059	S	0	0	0	0	0	0	0	0	0	0
HSR1095-203	CAPE SPENCER	S.E. ALASKA	10-Oct-95	03:58	58.038	137.165	205	0.87	2.3	049	P	0	0	0	0	0	0	0	0	0	0
HSR1095-204	CAPE SPENCER	S.E. ALASKA	10-Oct-95	04:11	58.043	137.152	205	0.92	2.2	044	S	0	0	0	0	0	0	0	0	0	0
HSR1095-205	CAPE SPENCER	S.E. ALASKA	11-Oct-95	05:06	58.065	137.110	205	0.90	2.2	033	P	0	0	0	0	0	0	0	0	0	0
HSR1095-206	CAPE SPENCER	S.E. ALASKA	11-Oct-95	05:19	58.072	137.105	205	0.85	2.3	035	S	0	0	0	0	0	0	0	0	0	0
HSR1095-207	CAPE SPENCER	S.E. ALASKA	11-Oct-95	06:07	58.088	137.077	197	0.88	2.9	034	P	0	0	0	0	0	0	0	0	0	0
HSR1095-208	CAPE SPENCER	S.E. ALASKA	11-Oct-95	06:13	58.100	137.068	197	0.93	2.3	037	S	0	0	0	0	0	0	0	0	0	0
HSR1095-209	CAPE SPENCER	S.E. ALASKA	11-Oct-95	07:07	58.128	137.030	197	0.88	2.5	047	P	0	0	0	0	0	0	0	0	0	0
HSR1095-210	CAPE SPENCER	S.E. ALASKA	11-Oct-95	07:15	58.133	137.023	197	0.92	4.9	070	S	0	0	0	0	0	0	0	0	0	0
HSR1095-211	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	19:20	57.172	135.955	105	1.42	2.3	173	P	0	0	0	0	0	0	2	0	0	0
HSR1095-212	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	19:19	57.170	135.930	105	1.43	2.6	189	S	0	0	0	0	0	0	3	0	0	0
HSR1095-213	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	20:40	57.108	135.945	133	0.83	2.8	194	P	0	0	0	0	0	0	3	0	0	0
HSR1095-214	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	20:52	57.100	135.948	133	0.85	2.9	195	S	0	0	0	0	0	0	1	0	0	0
HSR1095-215	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	21:37	57.065	135.967	149	0.88	2.7	186	P	0	0	0	0	0	0	0	0	0	0
HSR1095-216	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	21:50	57.055	135.970	149	0.92	2.8	184	S	0	0	0	0	0	0	0	0	0	0
HSR1095-217	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	22:47	57.012	135.975	149	0.72	2.9	173	P	0	0	0	0	0	0	0	0	0	0
HSR1095-218	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	22:55	57.005	135.973	149	0.83	2.8	173	S	0	0	0	0	0	0	0	0	0	0
HSR1095-219	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	23:41	56.970	135.967	216	0.82	1.9	225	P	0	0	0	0	0	0	0	0	0	0
HSR1095-220	CAPE EDGECUMBE	S.E. ALASKA	13-Oct-95	23:48	56.965	135.965	216	0.92	2.2	249	S	0	0	0	0	0	0	0	0	0	0
HSR1095-221	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	00:39	56.952	136.012	395	0.83	2.8	294	P	0	0	0	0	0	0	0	0	0	0
HSR1095-222	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	00:54	56.953	136.037	395	0.80	2.8	306	S	0	0	0	0	0	0	0	0	0	0
HSR1095-223	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	01:29	56.972	136.088	749	N/A	N/A	N/A	P	0	0	0	0	0	0	0	0	0	0
HSR1095-224	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	01:51	56.978	136.105	749	N/A	N/A	N/A	S	0	0	0	0	0	0	0	0	0	0
HSR1095-225	POINT LAUDER	S.E. ALASKA	14-Oct-95	18:30	56.615	135.340	41	1.00	2.1	119	P	0	0	0	0	0	0	0	0	0	0
HSR1095-226	POINT LAUDER	S.E. ALASKA	14-Oct-95	18:48	56.623	135.325	18	0.93	2.9	141	S	0	0	0	0	0	0	1	0	0	0
HSR1095-227	POINT LAUDER	S.E. ALASKA	14-Oct-95	19:38	56.592	135.278	18	0.87	2.9	144	P	0	0	0	0	0	0	0	0	0	0
HSR1095-228	POINT LAUDER	S.E. ALASKA	14-Oct-95	19:51	56.583	135.267	51	0.88	3.0	143	S	0	0	1	0	0	0	0	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-229	POINT LAUDER	S.E. ALASKA	14-Oct-95	20:38	56.553	135.225	26	0.87	2.8	140	P	0	0	0	0	0	0	0	0	0	0
HSR1095-230	POINT LAUDER	S.E. ALASKA	14-Oct-95	20:50	56.545	135.213	26	0.90	2.8	142	S	0	0	0	0	0	0	0	0	0	0
HSR1095-231	POINT LAUDER	S.E. ALASKA	14-Oct-95	21:38	56.515	135.172	26	0.87	2.8	142	P	0	0	0	0	0	0	0	0	0	0
HSR1095-232	POINT LAUDER	S.E. ALASKA	14-Oct-95	21:51	56.508	135.158	20	0.93	2.7	142	S	0	0	0	0	0	0	0	0	0	0
HSR1095-233	POINT LAUDER	S.E. ALASKA	14-Oct-95	22:41	56.478	135.118	42	1.05	2.6	142	P	0	0	0	0	0	0	1	0	0	0
HSR1095-234	POINT LAUDER	S.E. ALASKA	14-Oct-95	22:55	56.470	135.107	42	0.58	2.7	140	S	0	0	0	0	0	0	3	0	0	0
HSR1095-235	POINT LAUDER	S.E. ALASKA	14-Oct-95	23:39	56.445	135.070	20	1.10	2.0	207	S	0	0	0	0	0	0	0	0	0	0
HSR1095-236	POINT LAUDER	S.E. ALASKA	15-Oct-95	23:56	56.433	135.058	20	0.60	2.1	221	P	0	0	0	0	0	0	0	0	0	0
HSR1095-237	POINT LAUDER	S.E. ALASKA	15-Oct-95	00:39	56.415	135.093	88	0.85	3.2	248	P	0	0	0	0	0	0	0	0	0	0
HSR1095-238	POINT LAUDER	S.E. ALASKA	15-Oct-95	00:53	56.410	135.113	88	0.88	3.0	247	S	0	0	0	0	0	0	0	0	0	0
HSR1095-239	POINT LAUDER	S.E. ALASKA	15-Oct-95	01:42	56.395	135.183	115	0.80	2.9	255	P	0	0	0	0	0	0	0	0	0	0
HSR1095-240	POINT LAUDER	S.E. ALASKA	15-Oct-95	01:53	56.393	135.198	115	0.87	2.8	256	S	0	0	0	0	0	0	0	0	0	0
HSR1095-241	POINT LAUDER	S.E. ALASKA	15-Oct-95	02:41	56.383	135.263	140	0.80	2.7	249	P	0	0	0	0	0	0	0	0	0	0
HSR1095-242	POINT LAUDER	S.E. ALASKA	15-Oct-95	02:55	56.380	135.282	140	0.80	2.5	247	S	0	0	0	0	0	0	0	0	0	0
HSR1095-243	POINT LAUDER	S.E. ALASKA	15-Oct-95	03:38	56.368	135.333	140	0.92	2.6	246	P	0	0	0	0	0	0	0	0	0	0
HSR1095-244	POINT LAUDER	S.E. ALASKA	15-Oct-95	03:52	56.365	135.348	167	0.88	3.2	230	S	0	0	0	0	1	0	0	0	0	0
HSR1095-245	POINT LAUDER	S.E. ALASKA	15-Oct-95	04:38	56.350	135.405	167	0.87	3.0	247	P	0	0	0	0	0	0	0	0	0	0
HSR1095-246	POINT LAUDER	S.E. ALASKA	15-Oct-95	04:50	56.345	135.390	167	0.87	3.9	255	S	0	0	0	0	0	0	0	0	0	0
HSR1095-247	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	18:50	56.165	133.767	189	1.67	3.4	207	P	0	0	0	0	0	0	0	0	0	0
HSR1095-248	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	19:08	56.147	133.778	189	1.60	3.4	209	S	0	0	0	0	0	0	0	0	0	0
HSR1095-249	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	20:39	56.072	133.855	189	0.85	3.9	211	P	0	0	0	0	0	0	0	0	0	0
HSR1095-250	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	20:52	56.060	133.865	189	0.85	3.9	212	S	0	0	0	0	0	0	0	0	0	0
HSR1095-251	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	21:37	56.018	133.912	189	0.88	3.7	211	P	0	0	0	0	0	0	1	0	0	0
HSR1095-252	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	09:52	56.005	133.927	20	0.85	3.6	209	S	0	0	0	0	0	0	0	0	0	0
HSR1095-253	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	22:39	55.965	133.967	190	0.85	3.6	206	P	0	0	0	0	0	0	0	0	0	0
HSR1095-254	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	22:50	55.953	133.977	190	0.85	3.5	205	S	0	0	0	0	0	0	1	0	0	0
HSR1095-255	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	23:37	55.912	134.012	191	0.85	3.9	212	P	0	0	0	0	0	0	2	0	0	0
HSR1095-256	SUMNER STRAIT	INSIDE S.E. ALASKA	15-Oct-95	23:55	55.897	134.028	191	0.82	3.9	214	S	0	0	0	0	0	0	0	0	0	0
HSR1095-257	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	00:39	55.858	134.075	191	0.87	3.3	212	P	0	0	0	0	0	0	1	0	0	0
HSR1095-258	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	00:52	55.848	134.087	70	0.92	3.5	209	S	0	0	0	0	0	0	1	0	0	0
HSR1095-259	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	01:40	55.805	134.132	192	0.85	3.4	205	P	0	0	0	0	0	0	3	0	0	0
HSR1095-260	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	01:55	55.793	134.140	192	0.78	3.5	208	S	0	0	0	0	0	0	1	0	0	0
HSR1095-261	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	02:38	55.757	134.175	193	0.87	3.4	211	P	0	0	1	0	1	0	2	0	0	0
HSR1095-262	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	02:51	55.747	134.183	138	0.87	3.2	213	S	0	0	0	0	0	0	2	0	0	0
HSR1095-263	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	03:36	55.712	134.223	138	0.90	3.0	208	P	0	0	3	0	0	0	5	0	0	0
HSR1095-264	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	03:50	55.703	134.233	138	0.83	2.8	207	S	0	0	3	0	0	0	3	0	0	0
HSR1095-265	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	04:38	55.668	134.263	132	0.87	3.1	204	P	0	0	2	0	0	0	8	0	1	0
HSR1095-266	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	04:52	55.660	134.270	194	0.80	3.3	203	S	0	0	2	0	0	0	3	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-267	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	05:40	55.623	134.297	194	0.83	2.9	205	P	0	0	0	0	0	0	0	0	0	0
HSR1095-268	SUMNER STRAIT	INSIDE S.E. ALASKA	16-Oct-95	05:55	55.615	134.305	194	0.68	3.2	205	S	0	0	0	0	0	0	1	0	0	0
HSR1095-269	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	18:25	56.892	134.572	189	1.12	2.6	005	P	0	0	0	0	0	0	0	0	0	0
HSR1095-270	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	18:57	56.910	134.553	189	0.83	2.4	353	S	0	0	0	0	0	0	0	0	0	0
HSR1095-271	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	19:43	56.942	134.560	189	0.78	2.2	050	P	0	0	0	0	0	0	0	0	0	0
HSR1095-272	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	19:53	56.947	134.558	189	0.82	2.2	057	S	0	0	0	0	0	0	0	0	0	0
HSR1095-273	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	20:38	56.962	134.515	189	0.87	2.3	042	P	0	0	0	0	0	0	0	0	0	0
HSR1095-274	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	20:50	56.967	134.508	189	0.92	2.3	044	S	0	0	0	0	0	0	0	0	0	0
HSR1095-275	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	21:40	56.990	134.465	189	0.83	2.2	042	P	0	0	0	0	0	0	0	0	0	0
HSR1095-276	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	21:53	56.995	134.458	189	0.83	2.3	045	S	0	0	0	0	0	0	0	0	0	0
HSR1095-277	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	22:39	57.015	134.420	190	0.85	2.5	040	P	0	0	0	0	0	0	0	0	0	0
HSR1095-278	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	22:49	57.020	134.413	190	0.88	2.4	038	S	0	0	0	0	0	0	0	0	0	0
HSR1095-279	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	23:37	57.045	134.375	190	0.97	2.1	054	P	0	0	0	0	0	0	0	0	0	0
HSR1095-280	FREDERICK SOUND	INSIDE S.E. ALASKA	16-Oct-95	23:52	57.055	134.303	189	0.88	0.4	299	S	0	0	0	0	0	0	0	0	0	0
HSR1095-281	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	00:42	57.060	134.318	189	2.80	1.5	152	P	0	0	0	0	0	0	1	0	0	0
HSR1095-282	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	02:50	57.033	134.287	189	0.88	3.2	157	S	0	0	0	0	0	0	0	0	0	0
HSR1095-283	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	03:39	56.993	134.255	145	0.85	2.8	207	P	0	0	0	0	0	0	0	0	0	0
HSR1095-284	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	03:49	56.983	134.252	145	0.85	2.7	219	S	0	0	0	0	0	0	1	0	0	0
HSR1095-285	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	04:36	56.955	134.295	145	0.92	3.1	218	P	0	0	0	0	0	0	0	0	0	0
HSR1095-286	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	04:48	56.952	134.308	145	0.90	3.2	216	S	0	0	0	0	0	0	0	0	0	0
HSR1095-287	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	05:40	56.915	134.357	190	0.83	3.5	235	P	0	0	0	0	0	0	0	0	0	0
HSR1095-288	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	05:50	56.912	134.368	190	1.00	3.4	232	S	0	0	0	0	0	0	0	0	0	0
HSR1095-289	FREDERICK SOUND	INSIDE S.E. ALASKA	17-Oct-95	06:38	56.883	134.440	189	N/A	N/A	N/A	P	0	0	0	0	0	0	0	0	0	0
HSR1095-290	SUMNER STRAIT	INSIDE S.E. ALASKA	17-Oct-95	20:17	55.998	133.933	190	1.38	2.6	022	P	0	0	0	0	0	0	0	0	0	0
HSR1095-291	SUMNER STRAIT	INSIDE S.E. ALASKA	17-Oct-95	20:40	56.013	133.938	20	0.42	N/A	N/A	S	0	0	0	0	0	0	0	0	0	0
HSR1095-292	SUMNER STRAIT	INSIDE S.E. ALASKA	17-Oct-95	21:50	56.055	133.883	189	0.67	2.8	027	P	0	0	0	0	0	0	0	0	0	0
HSR1095-293	SUMNER STRAIT	INSIDE S.E. ALASKA	17-Oct-95	22:35	56.088	133.848	20	0.92	4.2	204	P	0	0	0	0	0	0	3	0	1	0
HSR1095-294	SUMNER STRAIT	INSIDE S.E. ALASKA	17-Oct-95	23:41	56.017	133.910	189	0.88	5.8	212	P	0	0	0	0	0	0	0	0	0	0
HSR1095-295	SUMNER STRAIT	INSIDE S.E. ALASKA	18-Oct-95	00:44	55.937	134.000	69	0.77	1.4	012	P	0	0	0	0	0	0	1	0	0	0
HSR1095-296	SUMNER STRAIT	INSIDE S.E. ALASKA	18-Oct-95	01:36	55.958	133.990	190	0.40	N/A	N/A	P	0	0	0	0	0	0	0	0	0	0
HSR1095-297	SUMNER STRAIT	INSIDE S.E. ALASKA	18-Oct-95	20:55	55.950	133.997	190	0.58	3.6	019	S	0	0	0	0	0	0	0	0	0	0
HSR1095-298	SUMNER STRAIT	INSIDE S.E. ALASKA	18-Oct-95	21:37	55.988	133.975	190	0.88	3.6	035	S	0	0	0	0	0	0	3	0	0	0
HSR1095-299	SUMNER STRAIT	INSIDE S.E. ALASKA	18-Oct-95	22:49	56.045	133.898	189	0.68	3.2	043	S	0	0	0	0	0	0	0	0	0	0
HSR1095-300	SUMNER STRAIT	INSIDE S.E. ALASKA	18-Oct-95	23:39	56.078	133.842	189	0.83	4.2	212	S	0	0	0	0	0	0	4	0	0	0
HSR1095-301	SUMNER STRAIT	INSIDE S.E. ALASKA	19-Oct-95	00:39	56.020	133.910	189	0.83	0.6	327	S	0	0	0	0	0	0	1	0	0	0
HSR1095-302	SUMNER STRAIT	INSIDE S.E. ALASKA	19-Oct-95	01:41	56.037	133.912	189	0.78	3.6	056	S	0	0	0	0	0	0	1	0	0	0
HSR1095-303	SUMNER STRAIT	INSIDE S.E. ALASKA	19-Oct-95	02:35	56.067	133.837	189	1.25	2.7	036	S	0	0	0	0	0	0	3	0	0	0
HSR1095-304	SUMNER STRAIT	INSIDE S.E. ALASKA	19-Oct-95	03:36	56.118	133.773	189	0.90	3.5	003	S	0	0	0	0	0	0	2	0	0	0

Table 1. Tow positions and catch summaries of salmon for the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Bottom Depth (m)	Tow Duration (h)	SOG (kts)	Heading (°T)	Net	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HSR1095-305	SUMNER STRAIT	INSIDE S.E. ALASKA	19-Oct-95	04:38	56.178	133.768	188	0.87	4.5	359	S	0	0	0	0	0	0	0	0	0	0
HSR1095-306	SUMNER STRAIT	INSIDE S.E. ALASKA	19-Oct-95	05:40	56.253	133.768	66	0.92	4.1	002	S	0	0	0	0	0	0	2	0	0	0
HSR1095-307	CLARENCE STRAIT	INSIDE S.E. ALASKA	20-Oct-95	03:08	54.770	131.898	197	0.87	3.9	359	S	0	0	0	0	2	0	1	0	0	0
HSR1095-308	CLARENCE STRAIT	INSIDE S.E. ALASKA	20-Oct-95	04:12	54.837	131.902	195	0.80	4.1	012	S	0	0	0	0	0	0	1	0	0	0
HSR1095-309	CLARENCE STRAIT	INSIDE S.E. ALASKA	20-Oct-95	05:09	54.900	131.877	195	0.77	4.8	341	S	0	0	0	0	0	0	0	0	0	0
HSR1095-310	CLARENCE STRAIT	INSIDE S.E. ALASKA	20-Oct-95	07:30	55.033	131.952	77	0.62	5.3	006	S	0	0	0	0	0	0	0	0	0	0
HSR1095-311	CLARENCE STRAIT	INSIDE S.E. ALASKA	20-Oct-95	08:20	55.098	131.935	115	0.67	4.5	020	S	0	0	0	0	0	0	0	0	0	0
											Totals	1	0	19	0	6	0	100	0	6	0
																			Overall total		132

Table 2. Biological data collected for salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Fish Number	Station ID	Species	Fork Length (mm)	Age	Sex
HSR1095-145-124-014	HSR1095-145	CHINOOK	305	N/A	N/A
HSR1095-156-112-019	HSR1095-156	CHUM	207	0.0	F
HSR1095-158-112-021	HSR1095-158	CHUM	217	0.0	F
HSR1095-162-112-024	HSR1095-162	CHUM	174	0.0	M
HSR1095-163-112-026	HSR1095-163	CHUM	229	0.0	M
HSR1095-163-112-027	HSR1095-163	CHUM	204	N/A	F
HSR1095-165-112-033	HSR1095-165	CHUM	180	0.0	M
HSR1095-169-112-041	HSR1095-169	CHUM	236	0.0	M
HSR1095-228-112-053	HSR1095-228	CHUM	251	N/A	N/A
HSR1095-261-112-071	HSR1095-261	CHUM	209	0.0	N/A
HSR1095-263-112-080	HSR1095-263	CHUM	211	N/A	N/A
HSR1095-263-112-081	HSR1095-263	CHUM	201	0.0	N/A
HSR1095-263-112-082	HSR1095-263	CHUM	195	0.0	N/A
HSR1095-264-112-086	HSR1095-264	CHUM	202	N/A	N/A
HSR1095-264-112-087	HSR1095-264	CHUM	210	0.0	N/A
HSR1095-264-112-088	HSR1095-264	CHUM	196	0.0	N/A
HSR1095-265-112-090	HSR1095-265	CHUM	203	0.0	N/A
HSR1095-265-112-091	HSR1095-265	CHUM	180	0.0	N/A
HSR1095-266-112-103	HSR1095-266	CHUM	217	0.0	N/A
HSR1095-266-112-104	HSR1095-266	CHUM	215	0.0	N/A
HSR1095-008-115-001	HSR1095-8	COHO	302	1.0	M
HSR1095-022-115-003	HSR1095-22	COHO	309	1.0	M
HSR1095-244-115-058	HSR1095-244	COHO	306	1.0	N/A
HSR1095-261-115-072	HSR1095-261	COHO	290	1.0	N/A
HSR1095-307-115-130	HSR1095-307	COHO	312	1.0	M
HSR1095-307-115-131	HSR1095-307	COHO	312	1.0	M
HSR1095-021-108-002	HSR1095-21	PINK	N/A	N/A	N/A
HSR1095-136-108-005	HSR1095-136	PINK	188	N/A	M
HSR1095-137-108-006	HSR1095-137	PINK	209	0.0	F
HSR1095-138-108-007	HSR1095-138	PINK	225	0.0	M
HSR1095-138-108-008	HSR1095-138	PINK	227	N/A	M
HSR1095-142-108-010	HSR1095-142	PINK	224	0.0	M
HSR1095-142-108-011	HSR1095-142	PINK	173	N/A	M
HSR1095-144-108-012	HSR1095-144	PINK	185	0.0	M
HSR1095-150-108-015	HSR1095-150	PINK	187	0.0	M
HSR1095-152-108-016	HSR1095-152	PINK	221	0.0	F
HSR1095-154-108-017	HSR1095-154	PINK	188	N/A	N/A
HSR1095-154-108-018	HSR1095-154	PINK	199	0.0	F
HSR1095-157-108-020	HSR1095-157	PINK	204	N/A	F
HSR1095-162-108-022	HSR1095-162	PINK	216	0.0	F
HSR1095-162-108-023	HSR1095-162	PINK	191	0.0	F
HSR1095-163-108-025	HSR1095-163	PINK	204	0.0	F
HSR1095-164-108-029	HSR1095-164	PINK	213	0.0	M
HSR1095-164-108-030	HSR1095-164	PINK	205	0.0	F

Table 2. Biological data collected for salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Fish Number	Station ID	Species	Fork Length (mm)	Age	Sex
HSR1095-164-108-031	HSR1095-164	PINK	182	0.0	F
HSR1095-164-108-032	HSR1095-164	PINK	192	N/A	M
HSR1095-166-108-034	HSR1095-166	PINK	195	0.0	M
HSR1095-166-108-035	HSR1095-166	PINK	211	0.0	F
HSR1095-166-108-036	HSR1095-166	PINK	202	N/A	M
HSR1095-166-108-037	HSR1095-166	PINK	194	N/A	M
HSR1095-166-108-038	HSR1095-166	PINK	191	0.0	M
HSR1095-167-108-039	HSR1095-167	PINK	204	N/A	M
HSR1095-168-108-040	HSR1095-168	PINK	213	N/A	M
HSR1095-171-108-042	HSR1095-171	PINK	223	N/A	M
HSR1095-211-108-043	HSR1095-211	PINK	210	0.0	N/A
HSR1095-211-108-044	HSR1095-211	PINK	204	0.0	N/A
HSR1095-212-108-045	HSR1095-212	PINK	239	0.0	N/A
HSR1095-212-108-046	HSR1095-212	PINK	206	0.0	N/A
HSR1095-212-108-047	HSR1095-212	PINK	208	0.0	N/A
HSR1095-213-108-048	HSR1095-213	PINK	217	N/A	N/A
HSR1095-213-108-049	HSR1095-213	PINK	230	0.0	N/A
HSR1095-213-108-050	HSR1095-213	PINK	203	0.0	N/A
HSR1095-214-108-051	HSR1095-214	PINK	192	N/A	N/A
HSR1095-226-108-052	HSR1095-226	PINK	205	N/A	N/A
HSR1095-233-108-054	HSR1095-233	PINK	183	0.0	N/A
HSR1095-234-108-055	HSR1095-234	PINK	208	0.0	N/A
HSR1095-234-108-056	HSR1095-234	PINK	210	N/A	N/A
HSR1095-234-108-057	HSR1095-234	PINK	190	N/A	N/A
HSR1095-251-108-058	HSR1095-251	PINK	188	N/A	N/A
HSR1095-254-108-059	HSR1095-254	PINK	187	0.0	N/A
HSR1095-255-108-060	HSR1095-255	PINK	206	0.0	N/A
HSR1095-255-108-061	HSR1095-255	PINK	193	0.0	N/A
HSR1095-257-108-063	HSR1095-257	PINK	187	N/A	N/A
HSR1095-258-108-064	HSR1095-258	PINK	187	0.0	N/A
HSR1095-259-108-065	HSR1095-259	PINK	204	0.0	N/A
HSR1095-259-108-066	HSR1095-259	PINK	197	0.0	N/A
HSR1095-259-108-067	HSR1095-259	PINK	197	0.0	N/A
HSR1095-260-108-068	HSR1095-260	PINK	176	0.0	N/A
HSR1095-261-108-069	HSR1095-261	PINK	194	0.0	N/A
HSR1095-261-108-070	HSR1095-261	PINK	205	0.0	N/A
HSR1095-262-108-073	HSR1095-262	PINK	198	0.0	N/A
HSR1095-262-108-074	HSR1095-262	PINK	190	0.0	N/A
HSR1095-263-108-075	HSR1095-263	PINK	204	N/A	N/A
HSR1095-263-108-076	HSR1095-263	PINK	207	0.0	N/A
HSR1095-263-108-077	HSR1095-263	PINK	186	N/A	N/A
HSR1095-263-108-078	HSR1095-263	PINK	168	0.0	N/A
HSR1095-263-108-079	HSR1095-263	PINK	186	0.0	N/A
HSR1095-264-108-083	HSR1095-264	PINK	216	0.0	N/A
HSR1095-264-108-084	HSR1095-264	PINK	205	N/A	N/A
HSR1095-264-108-085	HSR1095-264	PINK	177	0.0	N/A
HSR1095-265-108-092	HSR1095-265	PINK	209	0.0	N/A

Table 2. Biological data collected for salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Fish Number	Station ID	Species	Fork Length (mm)	Age	Sex
HSR1095-265-108-093	HSR1095-265	PINK	193	0.0	N/A
HSR1095-265-108-094	HSR1095-265	PINK	199	0.0	N/A
HSR1095-265-108-095	HSR1095-265	PINK	193	0.0	N/A
HSR1095-265-108-096	HSR1095-265	PINK	209	0.0	N/A
HSR1095-265-108-097	HSR1095-265	PINK	188	0.0	N/A
HSR1095-265-108-098	HSR1095-265	PINK	178	0.0	N/A
HSR1095-265-108-099	HSR1095-265	PINK	190	N/A	N/A
HSR1095-266-108-100	HSR1095-266	PINK	185	0.0	N/A
HSR1095-266-108-101	HSR1095-266	PINK	191	0.0	N/A
HSR1095-266-108-102	HSR1095-266	PINK	182	N/A	N/A
HSR1095-268-108-105	HSR1095-268	PINK	173	N/A	N/A
HSR1095-281-108-106	HSR1095-281	PINK	225	0.0	F
HSR1095-284-108-107	HSR1095-284	PINK	N/A	N/A	N/A
HSR1095-293-108-108	HSR1095-293	PINK	186	N/A	N/A
HSR1095-293-108-109	HSR1095-293	PINK	184	N/A	N/A
HSR1095-293-108-110	HSR1095-293	PINK	221	N/A	N/A
HSR1095-295-108-112	HSR1095-295	PINK	166	N/A	F
HSR1095-298-108-113	HSR1095-298	PINK	202	N/A	M
HSR1095-298-108-114	HSR1095-298	PINK	162	N/A	F
HSR1095-298-108-115	HSR1095-298	PINK	183	N/A	M
HSR1095-300-108-116	HSR1095-300	PINK	204	N/A	N/A
HSR1095-300-108-117	HSR1095-300	PINK	189	N/A	N/A
HSR1095-300-108-118	HSR1095-300	PINK	194	N/A	N/A
HSR1095-300-108-119	HSR1095-300	PINK	180	0.0	N/A
HSR1095-301-108-120	HSR1095-301	PINK	202	0.0	F
HSR1095-302-108-121	HSR1095-302	PINK	182	N/A	F
HSR1095-303-108-122	HSR1095-303	PINK	200	N/A	M
HSR1095-303-108-123	HSR1095-303	PINK	190	N/A	F
HSR1095-303-108-124	HSR1095-303	PINK	178	N/A	F
HSR1095-304-108-125	HSR1095-304	PINK	204	N/A	F
HSR1095-304-108-126	HSR1095-304	PINK	196	N/A	F
HSR1095-306-108-127	HSR1095-306	PINK	194	N/A	N/A
HSR1095-306-108-128	HSR1095-306	PINK	192	N/A	F
HSR1095-307-108-129	HSR1095-307	PINK	206	N/A	N/A
HSR1095-308-108-132	HSR1095-308	PINK	201	0.0	F
HSR1095-136-118-004	HSR1095-136	SOCKEYE	258	1.0	M
HSR1095-140-118-009	HSR1095-140	SOCKEYE	224	N/A	M
HSR1095-144-118-013	HSR1095-144	SOCKEYE	233	N/A	N/A
HSR1095-164-118-028	HSR1095-164	SOCKEYE	199	1.0	M
HSR1095-265-118-089	HSR1095-265	SOCKEYE	181	1.0	N/A
HSR1095-293-118-111	HSR1095-293	SOCKEYE	179	N/A	N/A

Table 3. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.

Station ID	CTD Filename	Transect	Region	Date	Time UTC	Latitude (°N)	Longitude (°W)	SST (°C)	SSS (ppt)
HSR1095-CTD02	9536-2	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	09:37	56.682	136.419	12.159	32.104
HSR1095-CTD03	9536-3	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	11:14	56.689	136.269	10.917	31.704
HSR1095-CTD04	9536-4	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	12:33	56.685	136.114	11.050	31.780
HSR1095-CTD06	9536-6	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	14:04	56.681	135.954	10.566	31.505
HSR1095-CTD07	9536-7	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	15:05	56.679	135.791	10.682	31.399
HSR1095-CTD08	9536-8	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	16:05	56.676	135.644	10.549	31.193
HSR1095-CTD09	9536-9	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	17:01	56.670	135.485	11.036	31.000
HSR1095-CTD10	9536-10	CAPE EDGECUMBE	S.E. ALASKA	14-Oct-95	17:50	56.668	135.343	10.861	30.851
HSR1095-CTD11	9536-11	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	06:55	56.326	135.443	11.378	31.915
HSR1095-CTD12	9536-12	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	07:58	56.288	135.297	11.215	31.917
HSR1095-CTD14	9536-14	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	08:55	56.259	135.164	11.633	31.983
HSR1095-CTD15	9536-15	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	09:51	56.223	135.031	10.901	31.919
HSR1095-CTD17	9536-17	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	10:42	56.206	134.970	11.901	32.038
HSR1095-CTD18	9536-18	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	11:34	56.153	134.761	9.482	31.472
HSR1095-CTD19	9536-19	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	12:27	56.113	134.612	9.807	31.565
HSR1095-CTD20	9536-20	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	13:34	56.078	134.470	9.667	31.644
HSR1095-CTD21	9536-21	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	14:37	56.043	134.331	9.718	31.825
HSR1095-CTD22	9536-22	CAPE OMMANEY	S.E. ALASKA	15-Oct-95	15:24	55.994	134.200	8.967	30.116
HSR1095-CTD23	9536-23	IPHIGENIA BAY	S.E. ALASKA	16-Oct-95	07:39	55.597	134.311	11.199	31.700
HSR1095-CTD24	9536-24	CHATHAM STRAIT	S.E. ALASKA	17-Oct-95	09:00	56.772	134.458	7.443	30.807

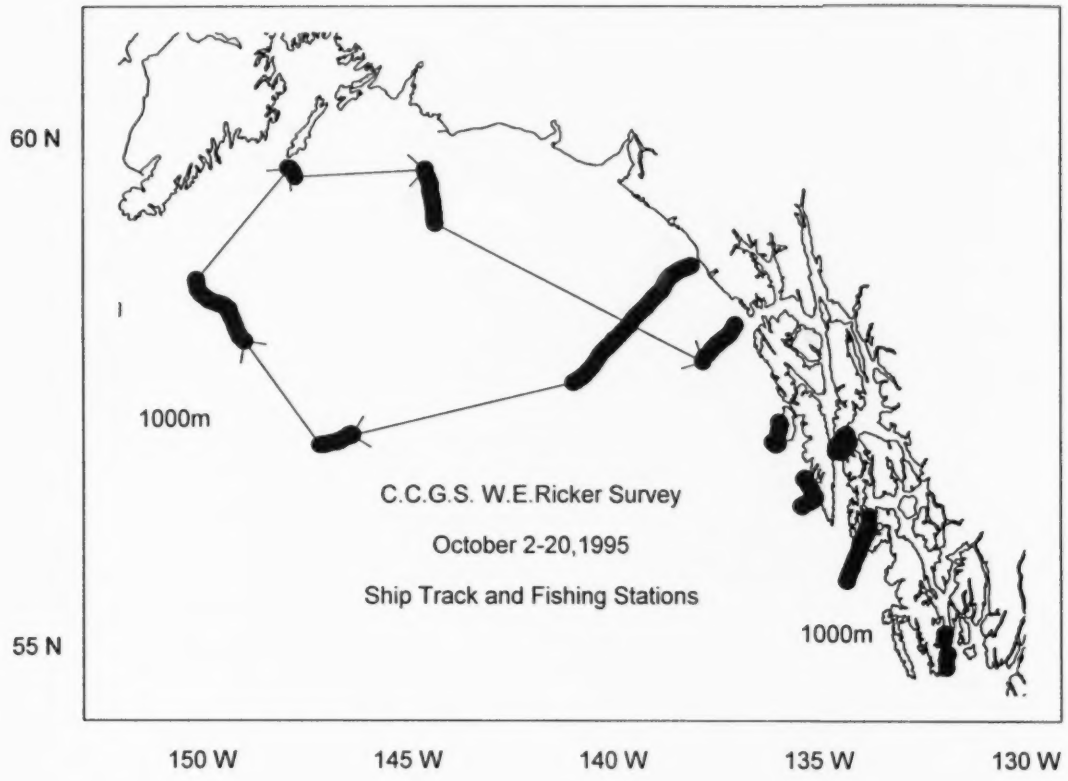


Figure 1. Cruise track of the CCGS W. E. Ricker salmon survey to the Gulf of Alaska during October 2-20, 1995. Circles indicate each haul location.

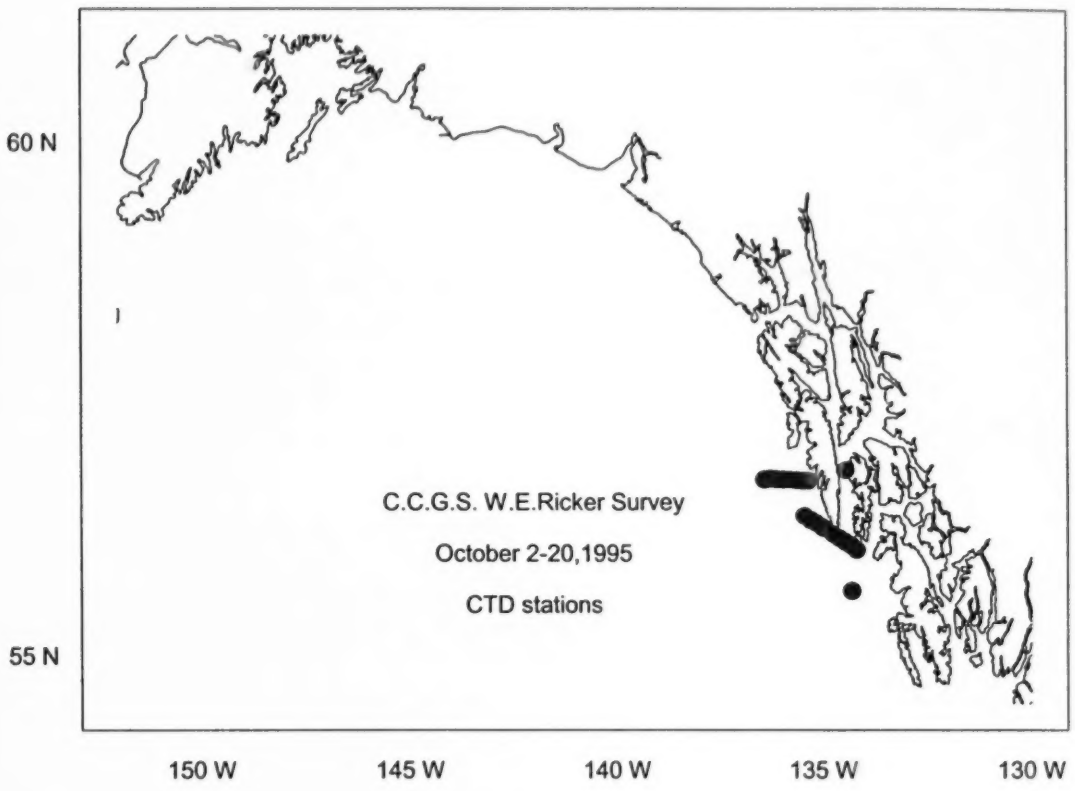
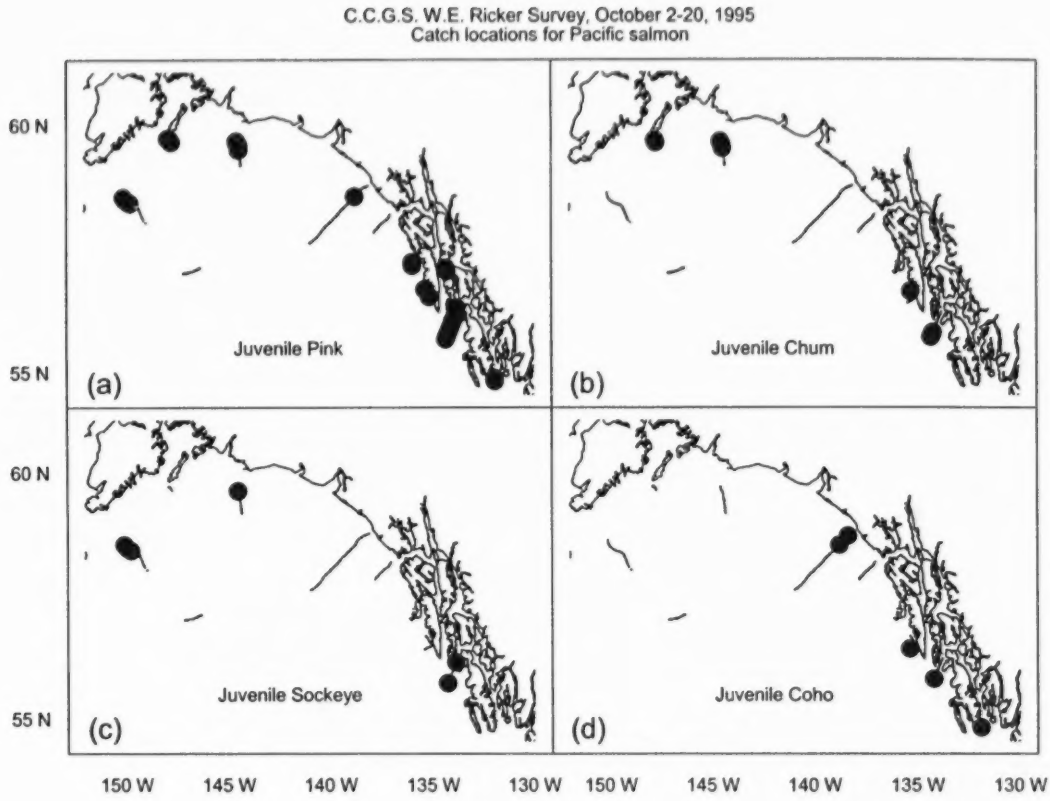


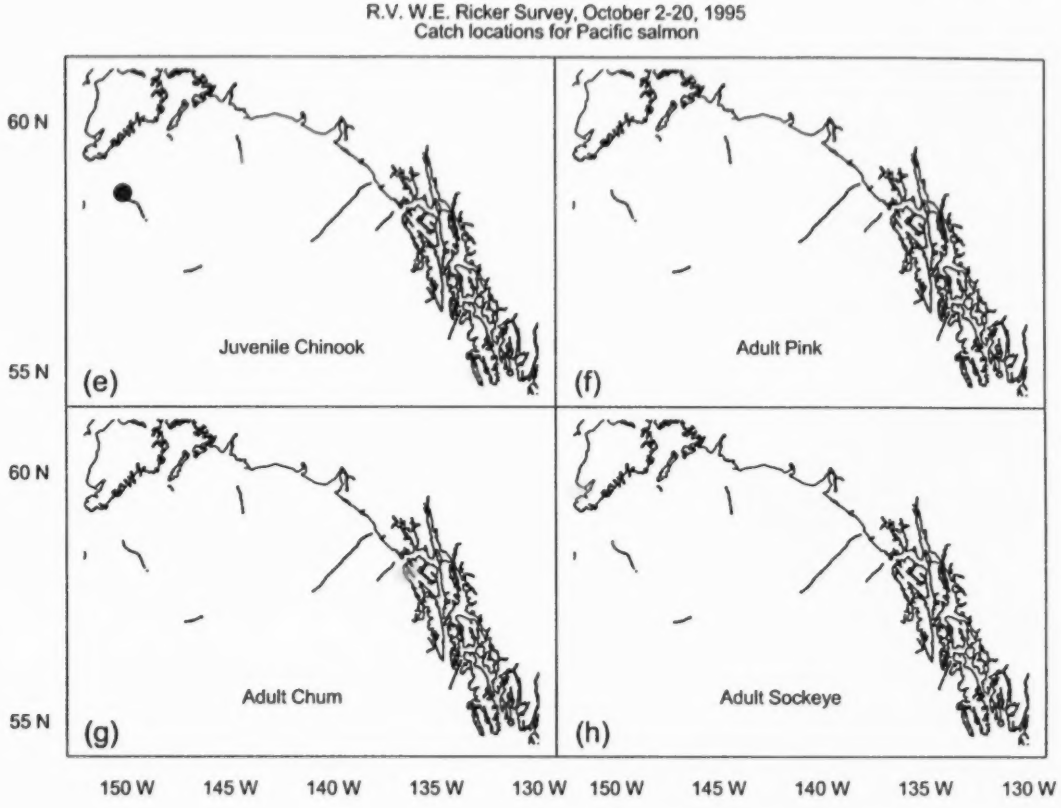
Figure 2. Locations of the oceanographic stations taken on the CCGS W. E. Ricker salmon survey to the Gulf of Alaska during October 2-20, 1995.



Legend: · No catch

● 1 – 10

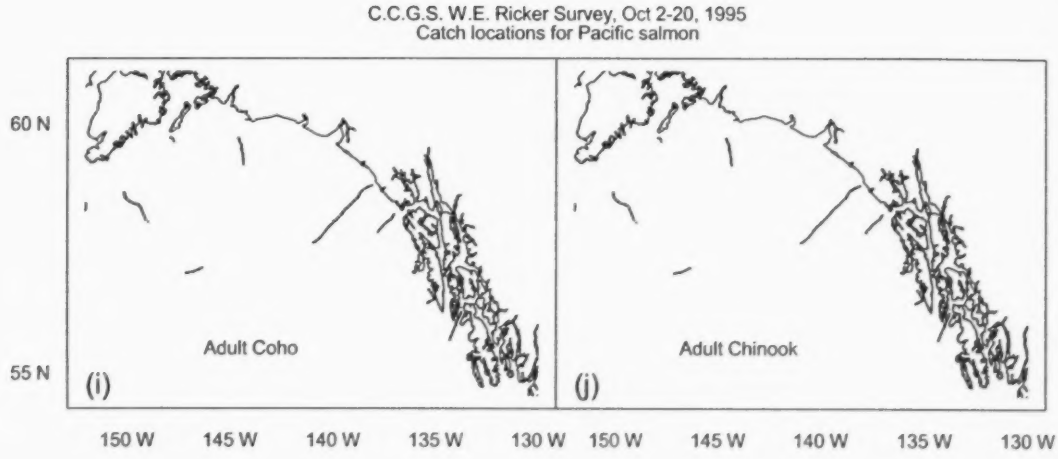
Figure 3. Catch locations for Pacific salmon on the CCGS W. E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.



Legend: · No catch

● 1 – 10

(Figure 3 – Page 2 of 3)



Legend: · No catch

● 1 – 10

(Figure 3 – Page 3 of 3)

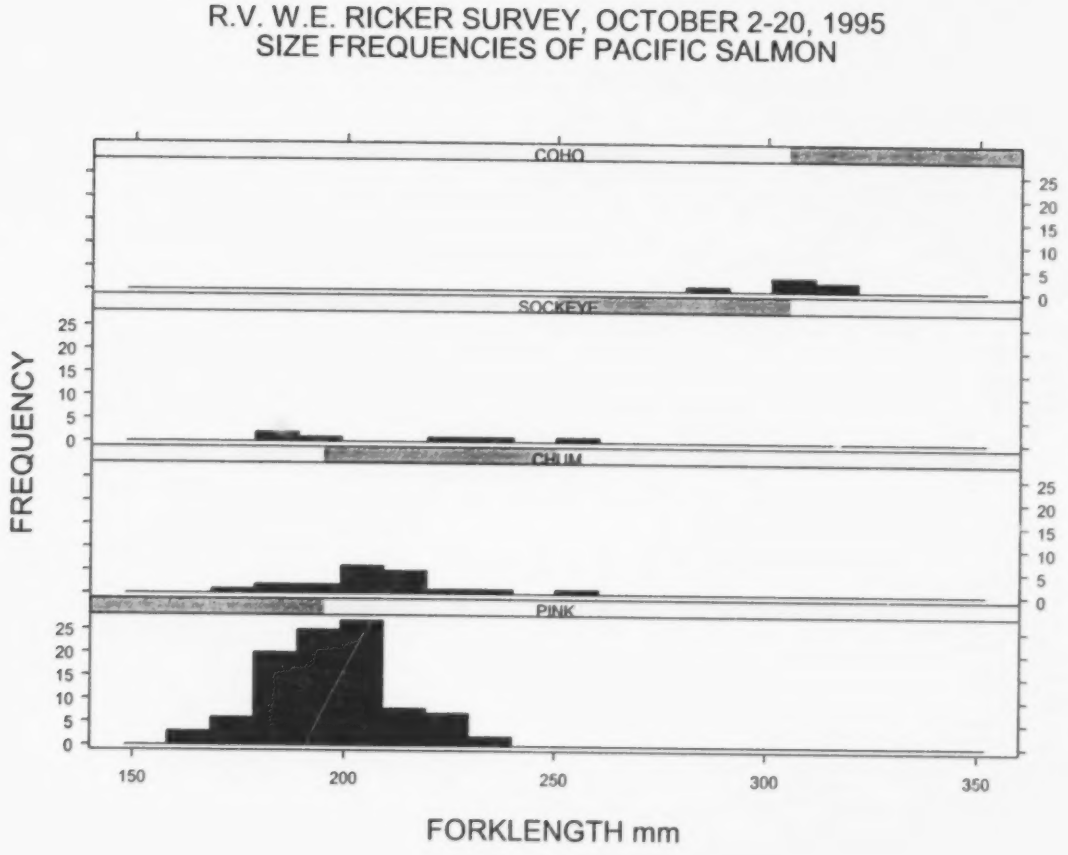


Figure 4. Size frequencies of coho, sockeye, chum and pink salmon caught on the CCGS W. E. Ricker survey to the Gulf of Alaska, October 2-20, 1995.